BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

***Name of Work**: Estimate for Maintenance of BBMP Drilled Borewells in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.*

JOB CODE:

Estimated Cost: Rs. 10.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 1000000.00

Name of Work: Estimate for Maintenance of BBMP Drilled Borewells in Ward No. 10 Doddabommasandra), Vidyaranyapura Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	Lifting of Submersible pump set as per Soecification and direction **(P. 56 / I. 10.3.21) PRED SR (2012-13)**	Each	25				**25**	850.00	**21250.00**
2	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	25				**25**	900.00	**22500.00**
3	Labour charges (over hauling) **P. No. 56 / I No.10.3.22 PRED SR (2012-13)**	Job	25				**25**	550.00	**13750.00**
4	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2012-13) P No. 54 / I. No. 10.1) (Above 10 HP upto 20 HP add Rs.150/- for every ½ HP)**								
	B) 12.5 HP Motor		25				**25**	4750.00	**118750.00**
	upto 5 HP 2500.00								
	for 12.5 HP (150 x 15) 2250.00								
	Total 4750.00								
	B) Replacement of Motor Parts:								
5	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	25				**25**	5050.00	**126250.00**
6	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	25				**25**	4700.00	**117500.00**
7	Upper Flange **P. No. 56 / I No. 10.3.7 PRED SR (2012-13)**	No.	25				**25**	350.00	**8750.00**
8	Lower Housing **P. No. 56 / I No. 10.3.10 PRED SR (2012-13)**	No.	25				**25**	650.00	**16250.00**
9	Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	25				**25**	475.00	**11875.00**
10	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	25				**25**	1150.00	**28750.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
11	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	25				**25**	125.00	**3125.00**
12	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	25				**25**	150.00	**3750.00**
13	Guide vane **P. No. 54 / I No. 10.2.5 PRED SR (2012-13)**	No.	350				**350**	175.00	**61250.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Impeller Shell moulded with aluminium Bronze) **P. No. 54 / I No. 10.2.6 PRED SR (2012-13)**	No.	350				**350**	425.00	**148750.00**
15	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 55 / I No. 10.2.7 PRED SR (2012-13)**	No.	25				**25**	445.00	**11125.00**
16	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	25				**25**	150.00	**3750.00**
17	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55 / I No. 10.2.11 PRED SR (2012-13)**	No.	25				**25**	950.00	**23750.00**
18	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	25				**25**	1350.00	**33750.00**
19	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	25				**25**	150.00	**3750.00**
20	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	25				**25**	250.00	**6250.00**
21	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	25				**25**	950.00	**23750.00**
	D) General Items								
22	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008	Rmtr	1	100.00			**100.00**	375.00	**37500.00**
23	Heavy Duty Collar 50 mm dia	Nos	25				**25**	130.00	**3250.00**
24	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr	1	350.00			**350.00**	151.00	**52850.00**
25	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P **No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**	Mtr	1	60.00			**60.00**	150.00	**9000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
26	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**	Mtr							
			1	60.00			**60.00**	8.00	**480.00**
27	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**	Mtr							
	For Cutting Road Surface		1	50.00			**50.00**	60.00	**3000.00**
28	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**	Mtr							
	40mm dia GI pipe		8	4.00			**32.00**	240.00	**7680.00**
29	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**	No.							
	16Sqmm		8				**8.00**	260.00	**2080.00**
30	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, **(P No.68, I No. 1) KPWD Electrical SR 2010-11**	No							
			3				**3**	1950.00	**5850.00**
31	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	32 Amps		2x6				**12**	100.00	**1200.00**
32	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 99 Item No. 13.55 / PWD SR 2013-14**	Nos							
			3				**3**	1114.06	**3342.00**
	Basic Rate	1051.00							
	Area Weightage @ 6%	63.06							
	Total	**1114.06**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 103 / I. No. 13.81.3 PWD SR 2012-13**	No							
	50mm dia		3				**3**	201.40	**604.00**
	Basic Rate	190.00							
	Area Weightage @ 6%	11.40							
	Total	**201.40**							
34	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete	No							
			3	4.00			**12**	80.00	**960.00**
35	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No							
			3				**3**	350.00	**1050.00**
36	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No							
			3				**3**	1000.00	**3000.00**
37	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 41, I. No. 38B KPWD Electrical SR 2010-11**	Sq.Cm							
	16SWG		1x2	120.00	60.00		14400.00		
			1	360.00	25.00		9000.00		
							23400.00	0.33	**7722.00**
38	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	180.00	0.45	0.75	60.75		
							60.75	188.00	**11421.00**
	Basic Rate	188.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
39	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	180.00			180.00		
							180.00	157.00	**28260.00**
40	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
				Qty. Vide Item No. 22			**60.75**	61.00	**3706.00**
	Basic Rate	61.00							
41	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications Specification No. KBS 13.2.6/13.3 **P. 97 / I.13.37 PWD SR - 2013-14**	Each							
			5				**5**	1582.58	**7913.00**
	Basic Rate	1493.00							
	Area Weightage @ 6%	89.58							
	Total	**1582.58**							
42	Miscellaneous and Unforeseen Charges	L/S							**507.00**
								32	
								Total	**1000000.00**

(Rupees Ten Lakhs Only)

Administrative approval for Rs. 10.00 lakh
Ten lakhs only
P-1771
Registered as RE No. 68/14-15 dt. 29/10/14 to conditions contained enclosed memo. 15
Technical Sanction for Rs. 10.00 lakh
Ten lakhs only
P-1771
Registered as RE No. 165 dt. 29/10/14 to conditions contained enclosed memo.

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2013-14, PWD Elecrical 2010-11, PRED 2012-13 & SE-RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division
Bangalore-97.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
Bangalore - 92

152 - BYATARAYANAPURA AC
WARD NAME : 10 - DODDA BOMMASANDRA

Bedha
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97